

CLAIMS

1. A biodegradable substrate, which comprises a biodegradable nonwoven fabric that is stitched with a biodegradable thread.
2. A biodegradable substrate, which comprises a biodegradable nonwoven fabric and a biodegradable filmy material that are piled up on one another and stitched with a biodegradable thread.
3. The biodegradable substrate according to claim 2, wherein the biodegradable filmy material is in the form of a film or a sponge.
4. The biodegradable substrate according to any one of claims 1 to 3, wherein the biodegradable nonwoven fabric comprises a laminated product including a first layer and a second layer, each of which has a plurality of biodegradable threads arranged in parallel, the first layer and the second layer being piled up on one another such that an arranging direction of the threads of the first layer and an arranging direction of the threads of the second layer are at an angle with respect to each other, and adhered to each other.
5. The biodegradable substrate according to claim 4, wherein the laminated product further includes a third layer having a plurality of biodegradable threads arranged in parallel on the first layer or the second layer, where an arranging direction of the threads of the third layer and an arranging direction of the threads of the layer adjacent to the third layer are at an angle with respect to each other, and the third layer and its adjacent layer are adhered to each other.

6. The biodegradable substrate according to claim 4 or 5, wherein an acute angle between the arranging direction of the threads of the first layer and the arranging direction of the thread of the second layer, and/or an acute angle between an arranging direction of the threads of the third layer and an arranging direction of the threads of the layer adjacent to the third layer are/is about 20° or less.

7. The biodegradable substrate according to claim 4 or 5, wherein an acute angle between the arranging direction of the threads of the first layer and the arranging direction of the thread of the second layer, and/or an acute angle between an arranging direction of the threads of the third layer and an arranging direction of the threads of the layer adjacent to the third layer are/is about 70° to 90° .

8. The biodegradable substrate according to any one of claims 4 to 7, wherein the biodegradable nonwoven fabric comprises a plurality of the laminated products, each of which contains a plurality of layers having threads arranged therein and piled up on one another, and the laminated products are piled up one another and adhered to each other such that arranging directions of the threads of the layers adjacent to each other at an interface between the laminated products are at an angle with respect to each other.

9. The biodegradable substrate according to any one of claims 4 to 8, wherein the threads arranged on a respective layer have an

acute angle of about 0 to 5° therebetween.

10. The biodegradable substrate according to any one of claims 4 to 9, wherein the threads in each layer are arranged at intervals of about 0 to 40 mm.

11. The biodegradable substrate according to any one of claims 1 to 10, characterized in that stitches are made in a dotted pattern.

12. The biodegradable substrate according to claim 11, wherein the stitches are made at intervals of about 0.1 mm to 100 mm.

13. The biodegradable substrate according to any one of claims 1 to 12, wherein the surface of the biodegradable nonwoven fabric and/or the surface of the biodegradable thread are/is coated with a biodegradable material.

14. The biodegradable substrate according to claim 13, wherein the biodegradable material is comprised of one or more materials selected from the group consisting of collagen, gelatin, PLA, PLA derivatives, PGA, PGA derivatives and copolymers formed of two or more of PLA, PLA derivatives, PGA and PGA derivatives.

15. The biodegradable substrate according to any one of claims 1 to 14, characterized in that the biodegradable nonwoven fabric and/or the biodegradable thread are/is comprised of one or more materials selected from the group consisting of collagen, gelatin, PLA, PLA derivatives, PGA, PGA derivatives and copolymers formed of two or more of PLA, PLA derivatives, PGA and PGA derivatives.

16. A prosthetic material for tissue regeneration, which is filled

in a defective portion in a biological tissue, comprising a biodegradable substrate according to any one of claims 1 to 15.

17. A cultured tissue, characterized in that biological tissue cells are adhered to a biodegradable substrate according to any one of claims 1 to 15.